

differential
information obtained by said identifying circuit, and then
supplying said phase component to said clock regenerating
circuit,

AM
Concl
said clock phase detecting section including
a difference detecting unit, responsive to the
receipt of said composite input information, for detecting
any one of (I) difference information between the
demodulated signal and the equalized demodulated signal and
(II) a combination of ^{the} clock phase difference information
and ^{the} signal error differential information, and
a clock phase calculating unit for calculating said
phase component of said signal identification clock based
on the output from said difference detecting unit.

REMARKS

The parent application, Serial No. 552, 543, filed November 3, 1995, was originally submitted with 46 claims.

In the Examiner's first Office Action in the parent application, a restriction was required for examination of a single species of the invention from six species that were identified by the Examiner.

As a result of this restriction requirement, a first species, claims 1-14, directly related to Figure 1, was

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elected. Claims 1-14 were subsequently allowed after amendment. Because no allowed claim was deemed generic, no additional species were examined at that time.

Subsequent review of the issued patent by the inventors led to the conclusion that an error had been made by reason of the patentees claiming less than they had the right to claim in the patent. In particular, the patentees concluded that a generic claim could have been included among the claims during prosecution of the elected species.

Had a generic claim been entered and allowed in the parent case, then following allowance of the elected claims, the Examiner would have examined a reasonable number of additional species. Failure to have additional species examined in the parent case was the penalty paid for the error of omitting a generic claim. The reissue application has the objective of rectifying that error and defining a generic claim and thereby also cover hopefully all species that were originally claimed in the parent application.

Therefore, in the presently filed reissue application, allowed claims 1-14 have been reintroduced with only the

slightest non-substantive modification as discussed hereinafter.

Claims 15-46 have been added. With only the slightest non-substantive changes, as discussed hereinafter, claims 15-46 in the reissue application are the same as claims 15-46 in the original parent application.

The Office Action of May 31, 1997, in the parent application, Serial No. 08/552,543, stated that the application contains claims directed to the following patentably distinct species of the claimed invention:

Claims 1-14 - directly related to Figure 1 of the first embodiment. Patent Col. 9, line 34 to Col. 11, line 48.

Claims 15-21 - directly related to Figure 2 of the second embodiment. Patent Col. 11, line 49 to Col. 14, line 8.

Claims 22-28 - directly related to Figure 3 of the third embodiment. Patent Col. 14, line 9 to Col. 16, line 21.

Claims 29-32 - directly related to Figure 4 of the
fourth embodiment. Patent Col. 16, line 22 to Col. 17, line
26.

Claims 33-39 - directly related to Figure 5 of the
fifth embodiment. Patent Col. 17, line 27 to Col. 19, line
40.

Claims 40-46 - directly related to Figure 6 of the
sixth embodiment. Patent Col. 19, Line 41 to Col. 21, line
65.

Claim 47 has been added and is intended to relate to
each of the six embodiments. The preamble to claim 47
states: "A receiver circuit arranged in a receiving unit
of multiplex radio equipment"

Each of the other claims 1-46 has the identical
opening language or has been amended to have the identical
language to emphasize a generic relationship between the 47
claims. Thus, for example, allowed patent claim 1 is
changed in the preamble from "A clock phase detecting
circuit arranged in a receiving unit of multiplex radio
equipment" to -- A receiver circuit arranged in a receiver
unit of multiplex radio equipment--.

This is not a substantive change in the claim. It is clearly stated in the patent claim preamble that the clock phase detecting circuit is in a receiving unit of the radio equipment. Thus, now describing the invention in the claim preamble as a "receiver circuit in a receiving unit" is effected without a change of substance. Now, every claim has been amended to begin with, or already stated the same words. If the Examiner prefers, every claim could be amended to begin "A receiving unit of multiplex radio equipment...."

Because claims 15-46 were in the original application, clearly no new matter was added by reintroduction of those claims in the reissue application. Their relationships to the original disclosure has been indicated above where the six species are defined.

Claim 47 has been added. Claim 47 is a claim that was erroneously omitted from the parent application.

New claim 47 is comprised of features that were found in the original 46 claims and which are present in the claims 1-46 in prosecution here. New matter was not added in introducing claim 47.

The status of all claims 1-47, now in prosecution, is provided on a separate sheet annexed hereto.

Entry of this amendment and early examination of the reissue application on its merits is earnestly solicited.

Respectfully submitted,


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